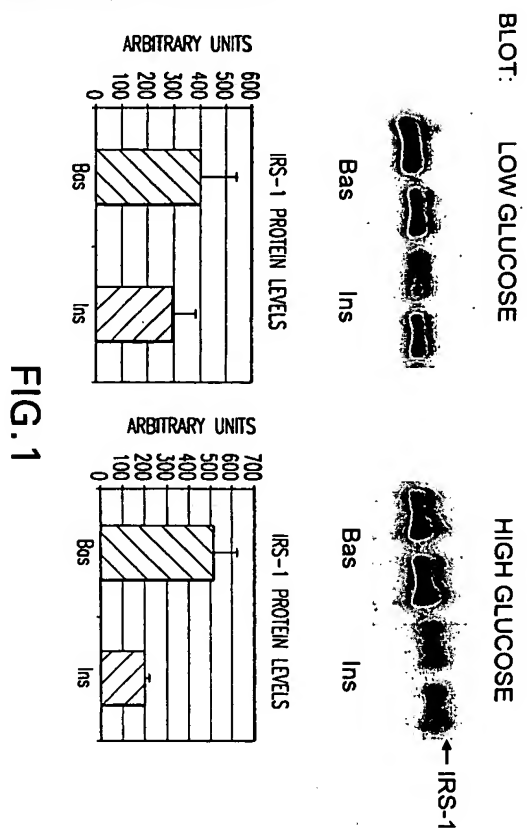


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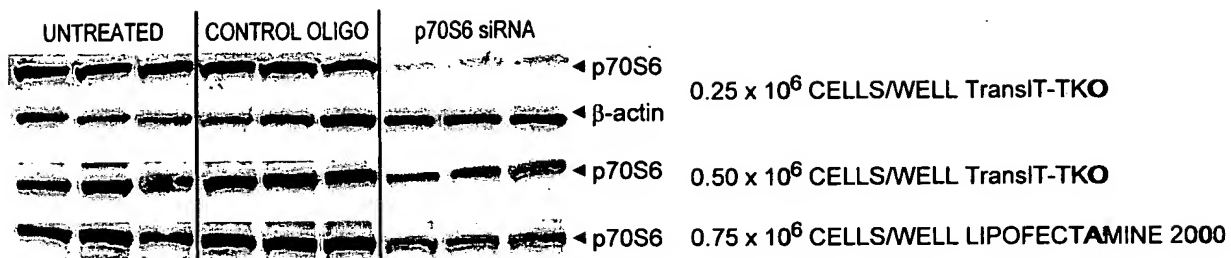


FIG.2

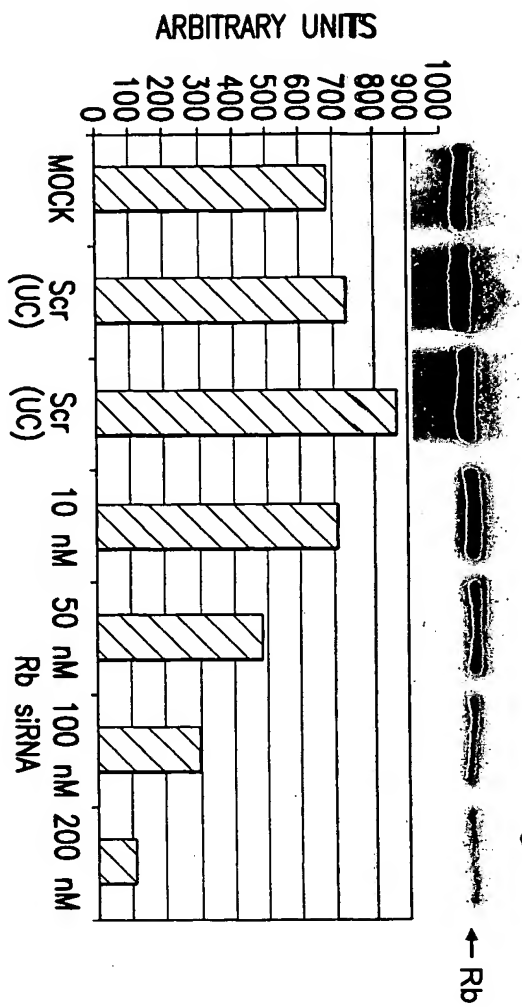


FIG.3

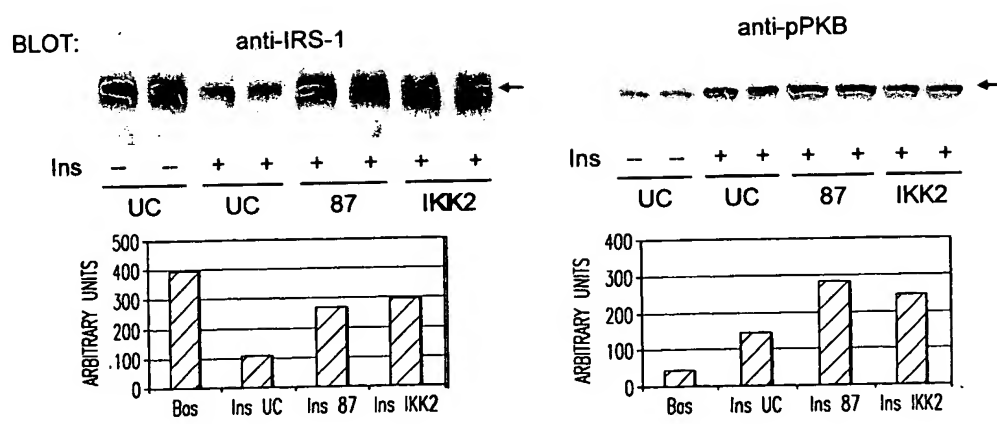


FIG.5

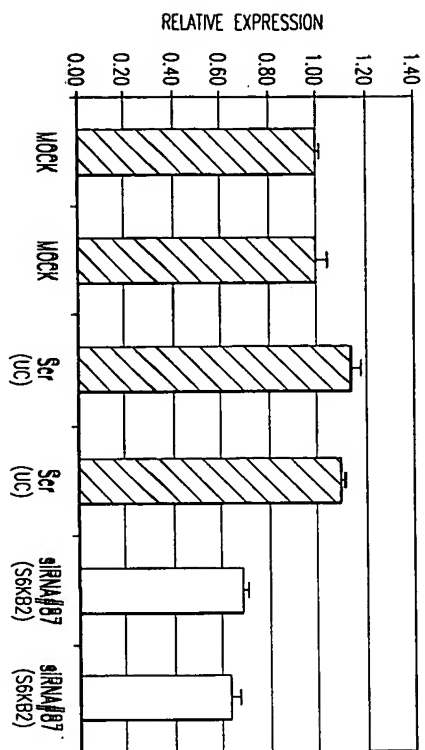


FIG. 6

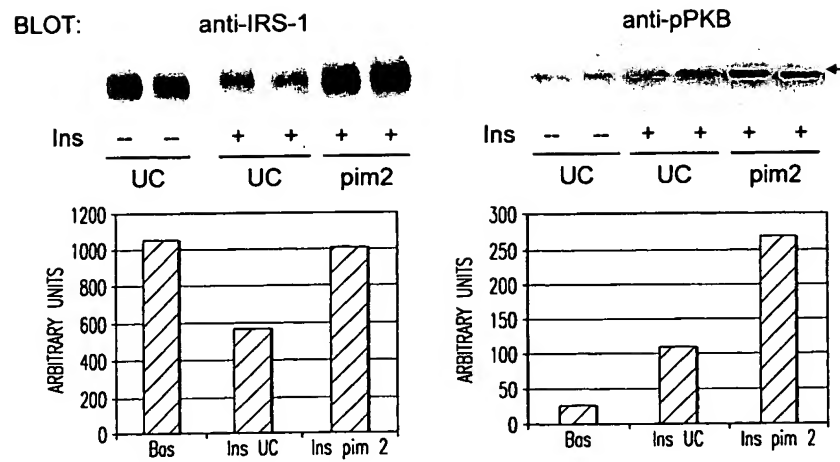


FIG.7

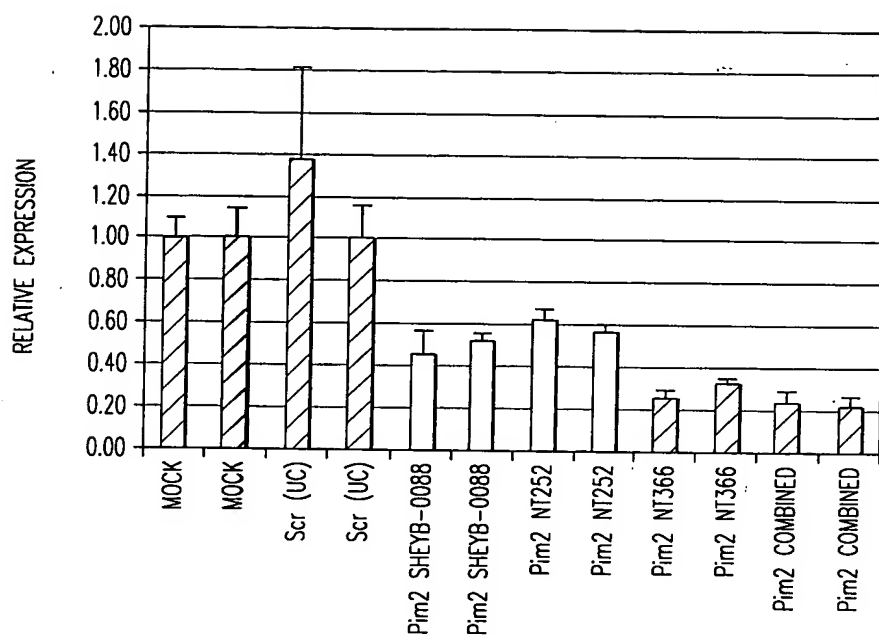
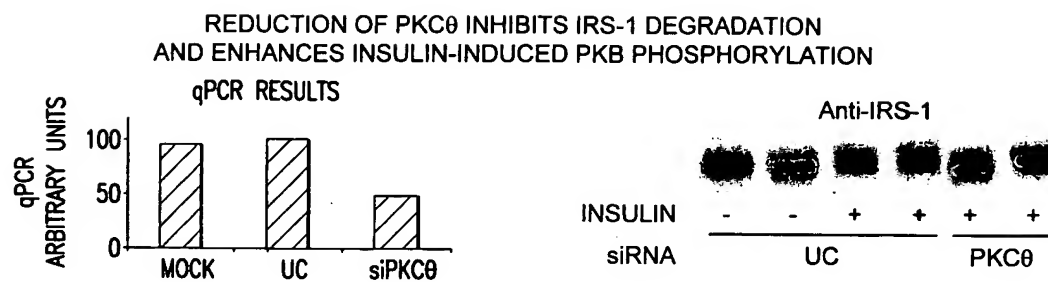


FIG.8



- FFA-INDUCED INSULIN RESISTANCE IS ASSOCIATED WITH ACTIVATION OF PKC θ
- PKC θ KO MICE ARE PROTECTED FROM LIPID INDUCED INSULIN-RESISTANCE
- INCREASED PKC θ IN MUSCLE OF PATIENTS WITH TYPE 2 DIABETES
- CHRONIC HYPERINSULINEMIA INCREASES PKC θ EXPRESSION

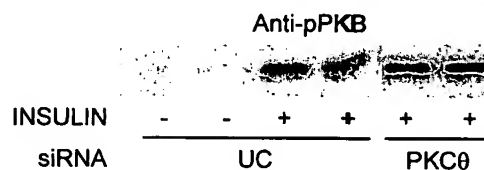
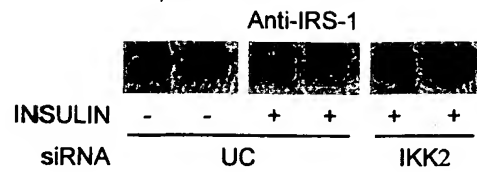
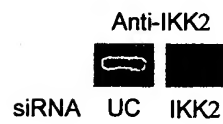


FIG.10

REDUCTION OF IKK2 INHIBITS IRS-1 DEGRADATION AND
ENHANCES INSULIN-INDUCED PKB PHOSPHORYLATION



- OVEREXPRESSION OF IKK2 CAUSE INSULIN RESISTANCE
- EXPRESSION OF DOMINANT NEGATIVE IKK2 REVERSES TNF, FFA AND HYPERGLYCEMIA INDUCED RESISTANCE
- IKK2 HAS BEEN SHOWN TO BE A TARGET OF HIGH DOSE SALICYLATES
- HETEROZYGOUS DELETION (*ikkbeta*^{+/-}) PROTECTED AGAINST THE DEVELOPMENT OF INSULIN RESISTANCE DURING HIGH-FAT FEEDING AND IN OBESE (*ob/ob*) MICE

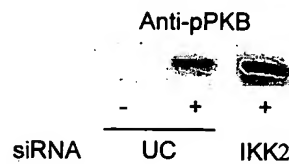


FIG.11

Anti-pPKB



- FIG. 12**

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